

Fomesafen vs G15 Herbicides Layered Residual

Brooklyn, WI 2024

Trial Information

Trial Sponsor: Syngenta

Objective: Compare fomesafen POST control with Liberty vs Liberty alone vs Liberty + Enlist. Compare fomesafen layered residual control vs group 15 herbicides.

Crop: Soybean

Hybrid: O'SOY 2024EL-3

Weed species (pressure): glyphosate-resistant waterhemp

Herbicide Application(s): PRE – 5/23
POST – 6/27 (V3 soybean)

For the full report see trial #24-BRO-SB12 in the [2024 Wisconsin Weed Science Research Report](#)



Cropping Systems Weed Science
UNIVERSITY OF WISCONSIN-MADISON

Fomesafen vs G15 Herbicides Layered Residual (Brooklyn, WI 2024)

Trt #	Herbicide (rate acre ⁻¹)	Necrosis (%)		Waterhemp (%)				Yield ^b bu acre ⁻¹
		6 DAT	14 DAT	6 DAT	14 DAT	26 DAT	9/18	
1	Untreated Check	0	0	0	0	0	0	50 b
Two-Pass – PRE^c (5/23) fb POST (6/27)								
2	Liberty (36 oz) + Roundup PM3 (26 oz) + AMS ^d	4.0	1.5	93	87	78	77	59 a
3	Enlist One (2 pt) + Roundup PM3 (26 oz) + AMS ^d	5.3	1.0	94	92	94	96	60 a
4	Liberty (36 oz) + Enlist One (2 pt) + Roundup PM3 (26 oz) + AMS ^d	5.3	1.5	96	96	91	95	59 a
5	Liberty (36 oz) + Flexstar (1 pt) + Roundup PM3 (26 oz) + AMS ^d	10.3	12.0	99	95	95	93	56 a
6	Liberty (36 oz) + Prefix (2 pt) + Roundup PM3 (26 oz) + AMS ^d	10.5	15.8	99	97	94	92	57 a
7	Liberty (36 oz) + Dual II Magnum (1 pt) + Roundup PM3 (26 oz) + AMS ^d	5.8	11.0	93	85	81	78	57 a
8	Liberty (36 oz) + Dual II Magnum (1.25 pt) + Roundup PM3 (26 oz) + AMS ^d	7.5	7.0	90	85	83	75	60 a
9	Liberty (36 oz) + Dual II Magnum (1.5 pt) + Roundup PM3 (26 oz) + AMS ^d	5.0	7.5	87	82	74	74	59 a
10	Liberty (36 oz) + Dual II Magnum (1.75 pt) + Roundup PM3 (26 oz) + AMS ^d	5.5	9.3	89	83	78	75	59 a
11	Liberty (36 oz) + Anthem Maxx (2.5 oz) + Roundup PM3 (26 oz) + AMS ^d	6.3	12.0	93	85	79	79	56 a
12	Liberty (36 oz) + Zidua SC (2.5 fl oz) + Roundup PM3 (26 oz) + AMS ^d	4.0	6.8	88	82	80	75	60 a
13	Liberty (36 oz) + Warrant (3 pt) + Roundup PM3 (26 oz) + AMS ^d	3.3	2.7	85	83	72	74	58 a
		LSD ($\alpha=0.10$)	2.5	3.5	7	6	7	8
		p value	<.001	<.001	0.023	<.001	<.001	<.001
								4 0.019

^aVisual control from 70-100% is illustrated on a color scale with green representing greater weed control values.

^bYield values with the same letter are not significantly different.

^cA lower rate of Tendovo (1.4 qt/a) was applied PRE over the entire trial area (except the untreated check).

^dAll POST applications included AMSOL/Dry applied at 3 lb/a

Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 7/3
6 days after the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

41 days after PRE (7/3)
Untreated Check

0%



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS

93%



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

94%



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

96%

POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

99%

POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

99%

POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

93%

POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

90%

POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS

87%



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

89%

POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

93%

POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS

88%



6 days after POST (7/3)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS

85%



Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 7/10
13 days after the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

48 days after PRE (7/10)
Untreated Check

0%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS

87%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

92%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

96%

POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

95%

POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS

97%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS

85%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

85%

POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS

82%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

83%

POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS

85%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS

82%



13 days after POST (7/10)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS

83%



Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 7/23
26 days after the POST application

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

61 days after PRE (7/23)

Untreated Check

0%



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS

78%



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

94%



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

91%

POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

95%

POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

94%

POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

81%

POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

83%

POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

74%

POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

78%

POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

79%

POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS

80%



26 days after POST (7/23)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS

72%



Fomesafen vs G15 Herbicides Layered Residual Brooklyn, WI 2024

Plot pictures taken on 10/1
The day of soybean harvest

The number in the upper right-hand corner is the average % waterhemp control of 4 replications

Soybean Harvest(10/1)

Untreated Check

0%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 26 oz Roundup PowerMAX3 + AMS

77%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

96%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2 pt Enlist One + 26 oz Roundup PowerMAX3 + AMS

95%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

93%

POST: 36 oz Liberty + 1 pt Flexstar + 26 oz Roundup PowerMAX3 + AMS



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2 pt Prefix + 26 oz Roundup PowerMAX3 + AMS

92%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 1 pt Dual II Magnum + 26 oz Roundup PM3 + AMS

78%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

75%

POST: 36 oz Liberty + 1.25 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 1.5 pt Dual II Magnum + 26 oz Roundup PM3 + AMS

74%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

75%

POST: 36 oz Liberty + 1.75 pt Dual II Magnum + 26 oz Roundup PM3 + AMS



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

79%

POST: 36 oz Liberty + 2.5 oz Anthem Maxx + 26 oz Roundup PM3 + AMS



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 2.5 oz Zidua SC + 26 oz Roundup PM3 + AMS

75%



Soybean Harvest(10/1)

PRE: 1.4 qt Tendovo

POST: 36 oz Liberty + 3 pt Warrant + 26 oz Roundup PM3 + AMS

74%

